7792

Diag. Cht. Nos. 1258, 1259, 1007-2, 1114

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HY-10648 Office No. H-7792

LOCALITY

State FLORIDA

General locality ~~EASTERN~~ GULF OF MEXICO

Locality NORTHWEST OF TAMPA BAY ENTRANCE

194 50

CHIEF OF PARTY

G. L. Anderson

LIBRARY & ARCHIVES

DATE JANUARY 18, 1954

B-1870-1 (1)

7792

Form 537
(Ed. June 1946)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO H7792

Field No. Hy 10648

State Florida

General locality ~~Eastern~~ Gulf of Mexico

Locality Northwest of Tampa Bay entrance.

Scale 1/ 100 000 Date of survey 20 Oct. 1948 thru 6 Dec. 1950

Instructions dated 9/26/46; Sup. 7/9/47, 10/6/48, 3/15/49, 7/17/50.

Vessel HYDROGRAPHER

Chief of party George L. Anderson

Surveyed by Officers attached to ship during 1948, 1949 & 1950.

Soundings taken by fathometer, graphic recorder, ~~hand lead, wire~~ Graphic recorder.

Fathograms scaled by Various personnel under officer supervision.

Fathograms checked by Ditto.

Protracted by Clarence R. Lehman

Soundings penciled by Clarence R. Lehman

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ and are true depths

REMARKS: Offshore survey controlled by EPI system.

Plotted in Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE 693019

7032

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY H-7792 (HY-10648)

20 October 1948 - 6 December 1950

Ship HYDROGRAPHER Scale 1:100,000

Chief of Party
George L. Anderson

A. PROJECT

This survey was made under Instructions from the Director to the Commanding Officer, Ship HYDROGRAPHER, for Project CS-328 and are dated 26 September 1946; amended by Supplemental Instructions dated 9 July 1947, 6 October 1948, 15 March 1949, and 17 July 1950.

B. SURVEY LIMITS AND DATES

This survey is off shore from and northwest of Tampa Bay Entrance Florida. An index of adjacent hydrographic sheets is attached.

This survey joins contemporary surveys, as indicated, on the south and on the west. It effects a junction with older surveys on the north and on the east.

Starting on the north and proceeding thru the east, south and west to the point of beginning this survey joins:

1. Survey H-1771, Scale 1:40,000, surveyed during 1887.
2. Survey H-1770, Scale 1:40,000, surveyed during 1887.
3. Survey H-1761, Scale 1:40,000, surveyed during 1886.
4. Survey H-1760, Scale 1:40,000, surveyed during 1886.
5. Survey H-1593 a & b, Scale 1:40,000, surveyed during 1884.
6. Survey H-7793, Scale 1:100,000, surveyed during 1948-49-50.
7. Survey H-7749, Scale 1:100,000, surveyed during 1948-49.

The EPI work in areas, of which this is one, where the Project limits are on the beach, was carried approximately to the ten (10) fathom curve and/or approximately 25 miles from the beach. Modern surveys will be made on the east and north of this survey at a later date.

The field work on this survey was started on 20 October 1948, continued during the 1949 field season and was completed on 6 December 1950. that is why survey is no good.

C. VESSEL AND EQUIPMENT

All work on this survey was accomplished by the Ship HYDROGRAPHER. No subparties were operated from the ship on this survey.

The Ship HYDROGRAPHER has a turning radius of 80 to 120 meters depending on the wind and/or current.

Prior to the 1949 season the NMC-1 type depth recorder was used as a standby fathometer with an 808 type depth recorder used as the regular sounding unit. In 1949 an additional 808 type recorder was installed and was used as a standby so that no time was lost when it was necessary to change paper or make repairs to the regular fathometer. In 1950 the installation of these units was such that either could be used at will and both are considered regular units and neither a standby as in previous seasons. The sounding unit used is integral feet.

Frequent simultaneous comparisons with wire soundings were made to obtain corrections and to assure the correct operation of the depth recorders at all times.

The gyroscope compass was used at all times while this survey was in progress. Bearings were taken when proceeding in and out of port and sun azimuths on the working grounds to check on the operation of the compass. The error was found to be negligible.

D. TIDE AND CURRENT STATIONS

Fathometer tidal observations were made when Current Station 11 (SOSBEE), located approximately 6 miles southwest of Anclote Key Light, was occupied for 58 hours. (Please refer to Instructions for and correspondence pertaining to Project CS-336, all addressed to Commanding Officer, Ship SOSBEE). This station falls outside the limits of hydrography on this survey but within the limits of the sheet. Please refer to applicable reports and attached copy of letter for additional details.

D. (Cont.)

The observed tides at the Tampa Bay, Florida, Primary Tide Station located at Saint Petersburg was used for the reduction of soundings. (See tidal note for additional information).

E. SMOOTH SHEET

The smooth sheet is being processed by the ~~Norfolk~~ Seattle Processing Office.

F. CONTROL STATIONS

The hydrography on this survey was controlled by three EPI shore stations, Station EPIC at Dekle Beach, Station EPICC at Cedar Keys and Station EPID at Venice. Prior to the 1949 field season the station at Dekle Beach was discontinued and the equipment moved to Cedar Keys where Station EPICC was established. Station EPID was continued in operation during the entire time of this survey, Station EPIC during the 1948 season and Station EPICC during 1949 and 1950 seasons. These stations were located by subparties working from the Ship HYDROGRAPHER by inspection of and/or short traverse on planimetric maps of the areas.

Station	Latitude	Longitude
EPIC - Dekle Beach	29° 50' 50".8 (1563 m.)	83° 37' 01".2 (33 m.)
EPICC- Cedar Keys	29 07 48.0 (1478 m.)	83 03 07.7 (207 m.)
EPID - Venice	27 04 53.4 (1643 m.)	82 26 47.7 (1314 m.)

The length of baseline between EPIC and EPID is 203.3 statute miles and between EPICC and EPID is 145.8 statute miles. The least angle of intersection on this survey between any pair of arcs is approximately 22 degrees.

For control used in the location of fixed buoys off Tampa Bay Entrance and Cape St. George refer to the applicable reports as listed under paragraph Z.

G. SHORELINE TOPOGRAPHY

This is an off shore survey and no shore line or topography is shown on this sheet.

H. SOUNDINGS

Sounding corrections for velocity of sound and instrumental errors were controlled by adequate serial temperature and salinity observations

H. (Cont.)

and by frequent simultaneous comparisons using sounding machine No. H-141 with stranded wire over calibrated sheaves.

The gears slipped in Fathometer No. 132 SG at 0231 on 19 May 1950 while the instrument was in use. Adequate simultaneous comparisons were made to assure phase corrections for the period the instrument was used before repairs could be made. (See note on page 70, volume 9).

The effective length of the stylus arm for the 808 J type machines was determined and checked and the speed of the machine was checked against the fathogram as described in paragraph 5554 of the Hydrographic Manual. Frequent additional checks were made during the season to assure the continued correct operation of the machines. The speed of the 808 machines were checked frequently on the fathom scale by counting the number of turns of the stylus arm with the middle reed vibrating at its maximum aplitude. The speed of the NMC-1 machine was checked frequently by counting the number of complete turns of the stylus arm on the scale in use. The speed of this machine is controlled by a tuning fork and on the shoal scale the stylus arm makes thirty complete turns every 60 seconds.

Summaries of all applicable reducers are attached to this report.

I. CONTROL OF HYDROGRAPHY

All hydrography on this survey was controlled by the EPI system using stations EPICC and EPID. Special test buoys were planted near shore and on the working grounds to obtain corrections to the EPI distances received during hydrographic operations. For the explanation of the use of these buoys and the correctors derived see the applicable reports.

J. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys for charting. All junctions with contemporary adjoining surveys are satisfactory, no holidays or excessive differences exist, although minor adjustments of sounding lines will be necessary on the southwest edge to bring this survey into exact agreement with Survey H-7793 (10948). All depth curves can be drawn at the junctions with the other surveys except as noted in paragraph L & M below.

Depth curves at one fathom intervals were drawn as the survey progressed. Only those curves were inked on the boat sheet as shown by the schedule, the other curves being left in pencil.

K. CROSSLINES (See Processing Office Notes of 12/31/53)

Approximately 10% of the hydrography is crosslines. Your attention is invited to the following apparent discrepancies noted on crossing and/or adjacent lines on the boat sheet. It appears from checking against the reduced soundings that a large number of these discrepancies will be automatically taken care of on the smooth sheet either by shift in the sounding lines, by the application of rather large phase correctors, or by a combination of the two.

1. The soundings obtained on lines 55 - 57 T and 48 - 50 YA, both cross lines, when crossing the soundings obtained on lines 17 - 18 CA, 72 - 73 BA, 21 - 22 CA, 36 - 37 BA, appear to be shoal. Line 19 - 21 DB crosses the first three lines in the vicinity of 55 - 57 T. Checking the soundings on this additional cross line against the reduced soundings indicates the T day soundings to be the ones in error. OK smooth sheet. Depths at crossings in adequate agreement

2. The soundings obtained on cross line 8 - 12 CB and on line 21 - 24 G indicates that the G day soundings are too deep. The soundings between positions 15 - 18 L indicate that the soundings between positions 8 - 12 G are too deep. Sounding line 4 - 12 DB was run along and over positions 13 - 25 G. The results seem to indicate that the G day soundings in this area are generally too deep. (Positions 6 - 25 G). Depths at crossings in adequate agreement.

3. The soundings on cross line 20 - 31 DB appear deep on the soundings between positions 47 - 48 W and positions 13 - 14 YA. The bottom is irregular and lumpy in this immediate area. Small shifts in the sounding lines would bring the soundings into agreement. Depths at crossings in adequate agreement.

4. There are several places where the depth curves are irregular and appear to be displaced. One such is the 60 foot curve in the vicinity of positions 7 - 11 CA, 7 - 10 DA, 32 - 36 YA. These lines are adjacent to each other. From an examination of the reduced soundings the curve will be materially straightened when plotted on the smooth sheet. OK Smooth Sheet. Sdgs. in agreement. Curves OK.

L. COMPARISON WITH PRIOR SURVEYS
M. COMPARISON WITH EXISTING CHARTS

Satisfactory junctions were obtained with the surveys listed in Paragraph B above, excepted as noted below. This survey supersedes in part the following surveys:

L & M (Cont.)

1. Survey H-1354, Scale 1:600,000, surveyed during 1875-76.
2. Survey H-1593 a & b, Scale 1:40,000, surveyed during 1884.
3. Survey H-1760, Scale 1:40,000, surveyed during 1886.
4. Survey H-1761, Scale 1:40,000, surveyed during 1886.
5. Survey H-1770, Scale 1:40,000, surveyed during 1887.
6. Survey H-1771, Scale 1:40,000, surveyed during 1887.

These surveys are the source of the hydrography shown in the area covered by this survey on the charts listed:

1. Chart 1007, print date 3 March 1950.
2. Chart 1114, print date 15 August 1949.
3. Chart 1258, print date 21 March 1949.
4. Chart 1259, print date 10 October 1949.

None of the soundings or wrecks discussed in the preliminary review fall within the limits of the hydrography on this survey.

The soundings shown on the surveys and the charts listed above (this paragraph) are generally from one to two fathoms shoaler than those obtained on the new survey. Numerous sand shoals which are unstable in character appear over the entire area, especially along the east and the northeast limits of the new survey. Undoubtly the depths will vary from storm to storm especially during the hurricane season.

see #5 of Review

Your attention is invited to the apparent differences listed below as examples. On analysis a displacement of either the old and/or the new survey would bring the two surveys into better agreement.

1. Latitude 28° 40' - Longitude 83° 09'

The shoals along the edge in this area are generally from one to two fathoms deeper than shown on the old surveys. This survey will be joined

see #5 of Review

later by modern surveys and more extensive development will be made if necessary to obtain satisfactory junctions between the modern surveys.

2. Latitude 28° 34.'7 - Longitude 83° 21.'0

Eight (8) fathoms is shown on the old survey in this area. The general depth on the new survey is 63-66 feet (boat sheet). Several soundings of 51 feet appear approximately 3 miles east and northeast of this spot. The old survey could be displaced this amount. See P 5 of Review

A detail analysis of the comparison between the old surveys, the existing charts and the new survey will be made after the smooth sheet is plotted. See P 5 & 6 of Review

N. DANGERS AND SHOALS

All charted dangers and shoals were found as charted or shoaler depths were found except for those listed in paragraph L, M or N above.

P. AIDS TO NAVIGATION

There are no floating or fixed aids to navigation located within the limits of this survey.

U. MISCELLANEOUS

This survey is one of many being made with the ship based at St. Petersburg, Florida. Due to the necessity for EPI tests at frequent intervals at known points, because of weather, attempts to reduce the runs to and from port to a minimum, and related factors, the planning of the work to be accomplished necessarily took in the entire project instead of concentrating on any one sheet. The concentration of lines around the test buoys resulted from the frequent EPI tests. Most of the hydrography on Survey H-7793 (Hy-10948) (1948-50) as well as the work on this survey was accomplished on the runs to and from the outer limits of the project.

Z. TABULATION OF APPLICABLE DATA

The data listed below was forwarded to the Officer in Charge, ~~Norfolk~~ Seattle Processing Office as indicated:

Pkg. No.	Date	Data
34	2/3/49	1 cahier - Instrument Corrections, etc. for 131 SG & 206 1 cahier - Tidal Data
	2/17/49	1 copy - Season's Report for 1948
40 (part)	3/28/49	Sounding Volumes Nos. 1 & 2
41 (part)	3/28/49	Fathograms A thru J Days EPI note books
42 (part)	3/28/49	EPI Plotting Abstracts (H-7792)
43	4/8/49	1 cahier - Tidal Data 1 cahier - EPI Correction Data
44	5/27/49	1 cahier - Temperature & Salinity Records, 1948
45	5/6/49	1 cahier - Computation for EPI Fixed Positions EPI note books
46	5/27/49	1 cahier - Fathometer Corrections, 1948
	10/26/49	1 cahier - Special Report on EPI Corrections
	10/26/49	1 cahier - Fixed Buoy Computations 1 copy - Season's Report for 1949
18	2/8/50	1 cahier - Velocity Corrections 1 cahier - Instrument Corrections } filed with H-7871
22	4/18/50	Sounding Volumes 3 to 7 incl.
23	4/20/50	Fathograms K thru Z Days
25 (part)	5/16/50	Plotting Abstracts (with H-7792)
26 (part)	5/16/50	EPI Distances

U. (Cont.)

The sounding volumes, fathograms and related material for the 1950 season together with the boat sheet and other pertinent data will be forwarded as they are processed.

The data listed below was forwarded direct to the Washington Office:

Date	Data
3/18/49	Location Data Station EPICC
5/5/49	Report on Calibration of Registering Sheaves
5/17/49	Report on Calibration of Registering Sheaves
5/26/49	Report on Calibration of Registering Sheaves
6/10/49	1 cahier - Fathometer Tidal Observations at Current Station 11 (SOSBEE)
8/17/49	Report on Settlement and Squat Tests
9/19/49	Report on Calibration of Registering Sheaves
5/18/50	Report on Calibration of Registering Sheaves
11/1/50	Report on Settlement & Squat Tests
1/9/51	Season's Report for 1950
1/15/51	EPI Correctors for 1950
1/17/51	Report on Velocity Corrections for 1950 (Filed with H-7871)
1/18/51	Report on Initial and Instrumental Corrections for 1950 (Filed with H-7871)

J. E. Waugh

J. E. Waugh
LCdr, USC&GS

APPROVAL SHEET

The field work accomplished on this survey was under the immediate supervision of Commander George L. Anderson. He made daily inspections of the records, fathograms and boat sheet as the survey progressed. He was detached after the 1950 field season and prior to the completion of this report.

The records and boat sheet as submitted to the ~~Norfolk~~ Seattle Processing Office have been reviewed and approved by Commander Anderson. The survey is considered complete and adequate and no additional field work is recommended.

Earle A. Deily
Commander, USC&GS
Commanding Officer
Ship HYDROGRAPHER

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8 June 1949

To: The Director,
U. S. Coast and Geodetic Survey
Washington 25, D. C.

Subject: Report on Tide Observations, Using 808 Fathometer, Current Station No. 11, Off Clearwater, Fla.

The Ship HYDROGRAPHER occupied current station No. 11 (SOSBEE) during the period from 1 to 4 June. Tidal observations were made at half hour intervals using the 808 type fathometer throughout the period of current observations. Four vertical cast simultaneous comparisons were made during the series, however, rough sea condition prevented accurate vertical cast sounding.

The following records are attached to this report:

7-13-54
Not as yet in Wash. Office file

(1) Fathogram
(2) Sketch book showing original scaled soundings and vertical casts.
(3) Sheet showing rescaled soundings from fathogram.
(4) Tidal curve plotted by using values from (2) and (3) above.
(5) Form 362, showing hourly scaled from mean curve (4).
(6) Form 138, showing high and low waters scaled from mean curve (4).

During the period of these observations adverse sea conditions made individual fathometer and vertical cast sounding somewhat questionable because of the motion of the ship. The fathogram is enclosed for office inspection.

The soundings recorded in the sketch book (2) were read by the officer of the watch at the time of each observation. On removal of the fathogram from the machine, it was carefully rescaled by one officer (3). The values of the soundings at half hour intervals using the two independent scalings were plotted on the graph and a mean curve drawn (4). The values of hourly heights and high and low waters taken from the curve are better than individual readings scaled from the fathograms, as the curve tends to eliminate irregularities due to sea conditions.

/s/ George L. Anderson
Commander, USC&GS,
Commanding Officer,
Ship HYDROGRAPHER

H 7793

HY 10648

Gulf of Mexico.

Processing Office Notes.

Smooth sheet.

The projection was made in Washington, where also the EPI arcs were drawn and revised. After plotting the sheet was trimmed to 32" X 54".

Survey buoys.

These buoys were for determining the EPI corrections. Sounding lines were not tied to the buoys. The positions of the lines have been influenced by the buoys thru the application of the EPI corrections only.

Adjustment of sounding lines. ✓

In numerous instances the EPI positions were inconsistent with time and course. They were adjusted as necessary with consideration to all data, including cross lines. If one EPI return was consistent with other data it was held. Adjustments were noted in the sounding records.

Bottom.

Small irregularities in depth of one to four feet occur thruout this survey. Except for these the bottom deepens gradually as you proceed offshore. The shoalest depth is 36 feet at ϕ 28 45 λ 83 10. There is 104 feet at the southwest corner of the sounded area.

On page 6 of this report note this statement: "numerous sand shoals which are unstable in character appear over the entire area---." ✓ PS of Review

On page 5 the paragraph concerning Pos. 6 - 25 G day still applies. The other items of subject K --Crossings are satisfactory on the smooth sheet. ✓ crossings adequate

Edgar E. Smith
Cart. Engr

12/31/53

EPI FINAL CORRECTIONS (Sheet No. 1)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks
1950	1950		
May 2 2100	May 3 1300	-3.0	
May 3 1301	May 3 1600	-1.8	Eqpt. Adjust.
May 3 1601	May 3 2300	-2.0	
May 3 2301	May 4 0600	-2.2	
May 4 0601	May 4 1200	-2.4	
May 4 1201	May 4 1900	-2.6	
May 4 1901	May 5 0100	-2.8	
May 5 0101	May 5 0800	-3.0	
May 5 0801	May 5 1400	-3.2	
May 5 1401	May 5 2100	-3.4	
May 5 2101	May 6 0300	-3.6	
May 6 0301	May 6 1000	-3.8	
May 6 1001	May 6 2000	-4.0	
May 6 2001	May 7 1600	-3.8	
May 7 1601	May 8 0900	-3.6	
May 8 0901	May 9 0400	-3.4	
May 9 0401	May 10 0400	-3.2	
May 10 0401	May 11 2300	-3.0	
May 11 2301	May 12 1200	-2.8	

From	To	Corr. D	Remarks
1950	1950		
May 2 2100	May 3 1300	-3.0	
May 3 1301	May 3 1430	-0.8	Eqpt. Adjust.
May 3 1431	May 3 2000	-1.0	
May 3 2001	May 4 0100	-1.2	
May 4 0101	May 4 0700	-1.4	
May 4 0701	May 4 1200	-1.6	
May 4 1201	May 4 2000	-1.8	
May 4 2001	May 5 1500	-2.0	
May 5 1501	May 8 0300	-2.2	
May 8 0301	May 11 1600	-2.4	
May 11 1601	May 12 1200	-2.2	

KPI FINAL CORRECTIONS

SEASON 1950

SHIP HYDROGRAPHER — G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
1949	1950			1950	1950		
May 18	May 27			May 18	May 19		
1400	1400	-1.2		1400	2200	-1.0	
				May 19	May 27		
				2201	1400	-1.2	
June 5	June 14			June 5	June 14		
1000	1300	-1.0		1000	1300	-1.4	
June 20	June 20			June 20	June 24		
1200	2400	-2.0		1200	1600	-1.2	
June 21	June 24			June 24	June 26		
0001	2400	-1.8		1601	2400	-1.4	
June 25	June 29		Eqpt.	June 27	June 29		
0001	1300	-1.0	Changed	0001	0200	-1.6	
				June 29	June 29		
				0201	1300	-1.8	
July 6	July 9			July 6	July 8		
2000	1300	-1.2	Ship Ret. to St.	2000	0500	-1.8	
July 10	July 15		Petersburg	July 8	July 8		
1700	1300	-0.8	during trip	0501	2400	-2.0	
				July 9	July 9		
				0001	1300	-2.2	Ship Returned to St. Peters-
				July 10	July 15		burg during tri
				1700	1300	-1.4	
July 20	July 21			July 20	July 20		
1300	1400	-1.0		1300	1800	-2.0	
July 21	July 23			July 20	July 25		
1401	2000	-1.2		1801	0000	-1.8	
July 23	July 26			July 25	July 26		
2001	0800	-1.4		0001	0600	-2.0	

Comp: JPL
CHK: EAD

EPI FINAL CORRECTIONS (Sheet No. 3)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
July 26 0601	July 26 1800	-1.2		July 26 0601	July 27 1000	-2.2	
July 26 1801	July 27 0800	-1.0		July 27 1001	July 28 0300	-2.0	
July 27 0801	July 27 2200	-0.8		July 28 0301	July 28 2100	-1.8	
July 27 2201	July 28 1400	-0.6		July 28 2101	July 29 1300	-1.6	
July 28 1401	July 29 0600	-0.4					
July 29 0601	July 29 1300	-0.2					
Aug. 9 1300	Aug. 10 0400	-1.2		Aug. 9 1300	Aug. 10 1700	-2.0	
Aug. 10 0401	Aug. 11 0000	-1.0		Aug. 10 1701	Aug. 11 1700	-1.8	
Aug. 11 0001	Aug. 11 1700	-0.8		Aug. 11 1701	Aug. 13 2000	-1.6	
Aug. 11 1701	Aug. 17 1200	-1.0		Aug. 13 2001	Aug. 15 2200	-1.8	
				Aug. 15 2201	Aug. 16 1000	-2.0	
				Aug. 16 1001	Aug. 16 1800	-2.2	
				Aug. 16 1801	Aug. 17 0100	-2.0	
				Aug. 17 0101	Aug. 17 0800	-1.8	
				Aug. 17 0801	Aug. 17 1200	-1.6	
Aug. 23 1300	Aug. 26 2400	-0.8	Ship Ret. to port due to Hurricane	Aug. 23 1300	Aug. 26 2400	-2.1	

Comp: JPL
Chk: EAD

SEASON 1950

CHIEF HYDROGRAPHER C.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
Nov. 24 1200	Nov. 25 1200	-1.4		Nov. 24 1200	Nov. 25 0600	-2.0	
Nov. 25 1201	Nov. 28 1200	-1.6		Nov. 25 0601	Nov. 27 0200	-1.8	
Nov. 28 1201	Nov. 29 0600	-1.4		Nov. 27 0201	Nov. 30 1300	-1.6	
Nov. 29 0601	Nov. 30 0000	-1.2					
Nov. 30 0001	Nov. 30 1300	-1.0					
Dec. 6 1200	Dec. 6 1600	-0.4		Dec. 6 1200	Dec. 6 2000	-2.2	
Dec. 6 1601	Dec. 6 2100	-0.6		Dec. 6 2001	Dec. 7 0300	-2.0	
Dec. 6 2101	Dec. 7 0300	-0.8		Dec. 7 0301	Dec. 7 1800	-1.8	
Dec. 7 0301	Dec. 7 0800	-1.0		Dec. 7 1801	Dec. 14 1600	-1.6	
Dec. 7 0801	Dec. 7 1400	-1.2					
Dec. 7 1401	Dec. 7 1900	-1.4					
Dec. 7 1901	Dec. 8 0100	-1.6					
Dec. 8 0101	Dec. 8 0600	-1.8					
Dec. 8 0601	Dec. 8 1400	-2.0					
Dec. 8 1401	Dec. 9 0900	-1.8					
Dec. 9 0901	Dec. 9 2100	-1.6					
Dec. 9 2101	Dec. 10 1100	-1.4					
Dec. 10 1101	Dec. 11 0900	-1.2					
Dec. 11 0901	Dec. 11 1800	-1.0					
Dec. 11 1801	Dec. 12 1000	-0.8					

Comp: JPL
Chk: GCN

FATHOMETER VELOCITY CORRECTIONS, 1948

SURVEYS HY-10148, HY-10648, HY-10948 FOOT SCALES

808-J CORRECTIONS

6 to 30 October		9 November to 22 December	
Corr. Ft.	To Depth Ft.	Corr. Ft.	To Depth Ft.
0.5	47	0.5	50
1.0	71	1.0	76
1.5	95	1.5	102
2.0	121	2.0	127
2.5	135	2.5	135

FATHOMETER VELOCITY CORRECTIONS, 1943

SURVEY NOS. HY-10148, HY-10448, HY-10548 FATHOM SCALES

SOS-J CORRECTIONS, 820 Fms. per Sec.

6 to 30 October

Corr. Fms.	To Depth Fms.
0.1	9.0
0.2	13.5
0.3	18.5
0.4	22.0
0.5	25.5
0.6	30.0
0.7	35.0
0.8	41.5
1.0	51.0
1.2	61.5
1.4	65.0

9 November to 22 December

Corr. Fms.	To Depth Fms.
0.1	9.5
0.2	15.0
0.3	19.5
0.4	24.5
0.5	29.5
0.6	39.5
0.8	50.0
1.0	65.0

NMC-1 CORRECTIONS, 800 Fms. per Sec.

6 to 30 October

Corr. FMS.	To Depth Fms.
0.2	7.5
0.3	9.5
0.4	11.5
0.5	14.0
0.6	16.0
0.7	18.0
0.8	20.5
0.9	22.0
1.0	23.5
1.1	25.5
1.2	27.5
1.3	29.5
1.4	33.5
1.6	37.0
1.8	41.0
2.0	45.5
2.2	49.5
2.4	54.0
2.6	58.5
2.8	63.0
3.0	65.0

9 November to 22 December

Corr. Fms.	To Depth Fms.
0.3	10.0
0.4	12.0
0.5	14.0
0.6	16.0
0.7	19.0
0.8	21.0
0.9	23.0
1.0	25.0
1.1	27.5
1.2	29.5
1.3	31.0
1.4	36.0
1.6	40.5
1.8	45.0
2.0	49.5
2.2	54.5
2.4	59.5
2.6	65.0

803 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FEET
To be used between 7 and 30 June 1949
For depths to 160 feet
SURVEY NOS. HY10148; HY10648; HY10948

Corrn Ft	To Depth Ft	
0.0	21.5	
0.5	42.0	
1.0	65.0	
1.5	88.5	
2.0	111.5	
2.5	137.5	Comp: FJB
3.0	160.0	Checked: FGJ

808 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FEET
To be used between 1 July and 11 Sept. 1949
For depths to 160 feet
SURVEY NOS. HY10148; HY10548;HY10648; HY10948

0.0	21.5	
0.5	40.5	
1.0	59.5	
1.5	79.5	
2.0	100.5	
2.5	122.5	
3.0	146.5	Comp: FJB
3.5	160.0	Checked: WRK

808 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FEET
To be used between 20 and 26 Sept. 1949
For depths to 160 feet
SURVEY NOS. HY10148; HY10548; HY10648; HY10948

0.0	21.5	
0.5	40.5	
1.0	59.0	
1.5	78.0	
2.0	97.5	
2.5	118.0	
3.0	139.0	Comp: FJB
3.5	160.0	Checked: WRK

803 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 1 July and 11 Sept. 1949
For depths to 40 Fathoms
SURVEY NOS: HY10148; HY10448; HY10548

Corrn Fms	To Depth Fms
0.1	7.5
0.2	11.5
0.3	15.5
0.4	20.5
0.5	25.5
0.6	36.5
0.8	40.0

Comp: FJB
Checked: WRK

803 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 20 and 26 Sept. 1949
For depths to 40 Fathoms
SURVEY NOS: HY10148; HY10548

0.1	7.5
0.2	11.5
0.3	15.5
0.4	19.5
0.5	23.5
0.6	33.5
0.8	40.0

Comp: FJB
Checked: WRK

803 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 7 and 30 June 1949
For depths to 106 Fathoms
SURVEY NOS: HY10148; HY10448; HY10548

0.1	8.0
0.2	13.0
0.3	17.5
0.4	22.5
0.5	28.5
0.6	41.5
0.8	60.0
1.0	88.5
1.2	101.0
1.0	110.0

Comp: FJB
Checked: FGJ

NBC-1 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 7 and 30 June 1949
For depths to 106 Fms
SURVEY NOS. HY10448; HY10548; HY10648; HY10948

Corrn Fms	To Depth Fms
0.2	7.0
0.3	9.0
0.4	11.0
0.5	13.0
0.6	15.5
0.7	17.5
0.8	20.0
0.9	22.0
1.0	24.0
1.1	26.5
1.2	29.0
1.3	31.0
1.4	36.5
1.6	41.5
1.8	47.0
2.0	52.0
2.2	57.5
2.4	63.0
2.6	68.5
2.8	74.5
3.0	80.5
3.2	86.5
3.4	92.5
3.6	98.5
3.8	104.0
3.5	102.5
4.0	110.0

Comp: FJB
Checked: FGJ

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7723 (10148); H-7818 (10248); H-7792 (10548); H-7820 (10848); H-7793 (10948).

PERIOD: 2 May through 13 May 1950.

FEET			FATHOMS		
Depth From	Depth To	Corrn.	Depth From	Depth To	Corrn. (0.1)
00.0	25.0	0.0	00.0	4.6	0.0
25.1	54.5	0.5	04.7	10.6	0.1
54.6	88.5	1.0	10.7	20.8	0.2
88.6	196.0	1.5	20.9	33.3	0.3
196.1	200.0	2.0			

PERIOD: 18 May through 27 May 1950.

FEET			FATHOMS		
Depth From	Depth To	Corrn.	Depth From	Depth To	Corrn. (0.1)
00.0	22.0	0.0	00.0	04.1	0.0
22.1	45.9	0.5	04.2	09.0	0.1
46.0	72.2	1.0	09.1	16.3	0.2
72.3	100.1	1.5	16.4	20.4	0.3
100.2	131.5	2.0	20.5	22.0	0.4

PERIOD: 5 June through 29 July 1950.

FEET			FATHOMS		
Depth From	Depth To	Corrn.	Depth From	Depth To	Corrn. (0.1)
20.9	40.0	0.5	4.5	7.5	0.1
40.1	59.5	1.0	7.6	12.0	0.2
59.6	79.0	1.5	12.1	15.5	0.3
79.1	102.0	2.0	15.6	20.5	0.4
102.1	130.0	2.5	20.6	26.5	0.5
130.1	157.5	3.0	26.6	32.0	0.6
157.6	160.0	3.5	32.1	38.5	0.7
			38.6	45.5	0.8
			45.6	57.0	0.9
			57.1	67.0	1.0

VELOCITY CORRECTIONS

For Type 803 J Depth Recorders - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated.

SURVEYS: H-7749 (10548); H-7792 (10648); H-7819 (10748);
H-7820 (10848); H-7793 (10948); H-7821 (20149).

PERIOD: 9 August through 27 August 1950.

FEET

Depth From	Depth To	Corrn.
	21.5	0.0
22.0	39.0	0.5
39.5	56.5	1.0
57.0	75.0	1.5
75.5	94.0	2.0
94.5	114.5	2.5
115.0	136.0	3.0
136.5	159.0	3.5
159.5		4.0

FATHOMS

Depth From	Depth To	Corrn. (0.2)
7.1	15.0	0.2
15.1	23.5	0.4
23.6	33.0	0.6
33.1	43.5	0.8
43.6	54.0	1.0
54.1	65.1	1.2
65.2	80.0	1.4
80.1	99.0	1.6
99.1	160.0	1.8

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.1	11.0	0.2
11.1	15.0	0.3
15.1	19.1	0.4
19.2	23.5	0.5
23.6	28.0	0.6
28.1	33.0	0.7
33.1	38.2	0.8
38.3	43.5	0.9
43.6	48.5	1.0
48.6	54.0	1.1
54.1	59.5	1.2
59.6	65.1	1.3
65.2	71.5	1.4
71.6	80.0	1.5
80.1	87.5	1.6
87.6	99.0	1.7
99.1	114.5	1.8
114.6	160.0	1.9

FATHOMS

Depth From	Depth To	Corrn. (0.5)
	11.0	0.0
11.1	33.0	0.5
33.1	59.5	1.0
59.6	99.0	1.5
99.1	160.0	2.0

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7723 (10148); H-7818 (10268); H-7792 (10648); H-7820 (10648); H-7793 (10948); H-7821 (20149); Chart 1007.

PERIOD: 6 December through 15 December 1950

FEET

Depth From	Depth To	Corrn.
00.0	27.5	0.0
28.0	59.0	0.5
59.5	90.0	1.0
90.5	121.5	1.5
122.0	150.5	2.0
151.0	162.0	2.5

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.0	11.5	0.1
11.6	17.5	0.2
17.6	23.5	0.3
23.6	29.0	0.4
29.1	34.8	0.5
34.9	40.4	0.6
40.5	46.2	0.7
46.3	52.2	0.8
52.3	59.0	0.9
59.1	67.5	1.0
67.6	77.0	1.1
77.1	88.0	1.2
88.1	131.5	1.3
131.6	151.0	1.2
151.1	160.0	1.1

FATHOMS

Depth From	Depth To	Corrn. (0.2)
0.0	11.5	0.0
11.6	23.5	0.2
23.6	34.8	0.4
34.9	46.2	0.6
46.3	59.0	0.8
59.1	77.0	1.0
77.1	151.0	1.2
151.1	160.0	1.0

FATHOMS

Depth From	Depth To	Corrn. (0.5)
0.0	25.0	0.0
25.1	54.0	0.5
54.1	160.0	1.0

VELOCITY CORRECTIONS

For Type MIC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: All corrections additive unless otherwise indicated.

SURVEYS: H-7821 (20149); H-7819 (10748)

PERIOD: 9 August through 27 August 1950

FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)	FATHOMS Depth From	To	Corrn. (0.5)
100	111	4.5	861	880	19.5	1401	1415	34.5
112	130	5.0	881	905	20.0	1416	1430	35.0
131	150	5.5	906	925	20.5	1431	1440	35.5
151	175	6.0	926	945	21.0	1441	1455	36.0
176	190	6.5	946	965	21.5	1456	1471	36.5
191	202	7.0	966	989	22.0	1472	1485	37.0
203	221	7.5	990	1010	22.5	1486	1500	37.5
222	244	8.0	1011	1030	23.0	1501	1515	38.0
245	267	8.5	1031	1050	23.5	1516	1528	38.5
268	292	9.0	1051	1070	24.0	1529	1542	39.0
293	320	9.5	1071	1090	24.5	1543	1558	39.5
321	350	10.0	1091	1108	25.0	1559	1570	40.0
351	385	10.5	1109	1128	25.5	1571	1582	40.5
386	420	11.0	1129	1143	26.0	1583	1595	42.0
421	450	11.5	1144	1161	26.5	1596	1610	41.5
451	481	12.0	1162	1179	27.0	1611	1625	42.0
482	510	12.5	1180	1195	27.5	1626	1635	42.5
511	545	13.0	1196	1210	28.0	1636	1650	43.0
546	575	13.5	1211	1225	28.5	1651	1660	43.5
576	605	14.0	1226	1245	29.0	1661	1675	44.0
606	635	14.5	1246	1260	29.5	1676	1685	44.5
636	665	15.0	1261	1275	30.0	1686	1700	45.0
666	692	15.5	1276	1291	30.5	1701	1710	45.5
693	720	16.0	1292	1308	31.0	1711	1721	46.0
721	745	16.5	1309	1323	31.5	1722	1735	46.5
746	768	17.0	1324	1340	32.0	1736	1750	47.0
769	790	17.5	1341	1355	32.5	1751	1760	47.5
791	815	18.0	1356	1370	33.0	1761	1771	48.0
816	840	18.5	1371	1385	33.5	1772	1780	48.5
841	860	19.0	1386	1400	34.0	1781	1795	49.0

VELOCITY CORRECTIONS

For Type MEC-1 Depth Recorder - Velocity of sound 800 fathoms per second

NOTE: ALL Corrections additive unless otherwise indicated

SURVEYS: H-6548; H-7821 (20149); H-7873 (20250); Chart 1007

PERIOD: 6 December through 15 December 1950

FATHOMS			FATHOMS			FATHOMS		
Depth		Corrn.	Depth		Corrn.	Depth		Corrn.
From	To	(0.5)	From	To	(0.5)	From	To	(0.5)
100	123	4.0	931	952	18.5	1445	1458	33.0
124	147	4.5	953	972	19.0	1459	1470	33.5
148	176	5.0	973	992	19.5	1471	1484	34.0
177	196	5.5	993	1010	20.0	1485	1500	34.5
197	222	6.0	1011	1030	20.5	1501	1514	35.0
223	260	6.5	1031	1050	21.0	1515	1528	35.5
261	295	7.0	1051	1070	21.5	1529	1542	36.0
296	330	7.5	1071	1088	22.0	1543	1556	36.5
331	368	8.0	1089	1106	22.5	1557	1570	37.0
369	403	8.5	1107	1124	23.0	1571	1584	37.5
404	440	9.0	1125	1142	23.5	1585	1596	38.0
441	474	9.5	1143	1160	24.0	1597	1610	38.5
475	508	10.0	1161	1180	24.5	1611	1622	39.0
509	544	10.5	1181	1200	25.0	1623	1636	39.5
545	576	11.0	1201	1218	25.5	1637	1650	40.0
577	606	11.5	1219	1234	26.0	1651	1662	40.5
607	634	12.0	1235	1250	26.5	1663	1674	41.0
635	662	12.5	1251	1264	27.0	1675	1686	41.5
663	690	13.0	1265	1282	27.5	1687	1700	42.0
691	716	13.5	1283	1300	28.0	1701	1712	42.5
717	740	14.0	1301	1316	28.5	1713	1724	43.0
741	764	14.5	1317	1332	29.0	1725	1736	43.5
765	790	15.0	1333	1350	29.5	1737	1750	44.0
791	814	15.5	1351	1366	30.0	1751	1762	44.5
815	836	16.0	1367	1382	30.5	1763	1776	45.0
837	860	16.5	1383	1398	31.0	1777	1788	45.5
861	884	17.0	1399	1414	31.5	1789	1800	46.0
885	908	17.5	1415	1428	32.0			
909	930	18.0	1429	1444	32.5			

FATHOMETER - INSTRUMENTAL
CORRECTIONS, 1948

Abstract of Instrumental Corrections and Settlement and Squat, Fathometers 808J No. 131SG & 132SG; NMC-1 No. 206

FATHOM SCALES
SURVEYS HY-10148, HY-10448, and HY-10548

Fath. No.	Dates 1948	Scale	Corrn. Fms	To Depth Fms
NMC1-206	1 Sept., 6 Oct. - 22 Dec.		-0.5	31.0
			-0.6	Over 31.0
808J-131SG	6 Oct. - 13 Nov.	A	+0.1	31.0
		A	0.0	55.0
		B	+1.2	90.0
808J-132SG	14 Nov. - 22 Dec.	A	+0.1	31.0
		A	0.0	55.0
		B	-1.0	90.0

FOOT SCALES
SURVEYS HY-10148, HY-10648 and HY-10948

Fath. No.	Dates 1948	Scale	Corrn Ft.	To Depth Ft.
808J-131SG	6 Oct. - 13 Nov.	A	+0.5	55
		B	+1.0	90
		C	+2.0	125
		D	+2.0	160
808J-132SG	1 Sept., 14 Nov. - 22 Dec.	A	+0.5	55
		B	-1.0	90
		C	-1.5	125
		D	-0.5	160

Comp: FJB
Checked: FGJ

FATHOMETER - INSTRUMENTAL
CORRECTIONS, 1949

Abstract of Instrumental Corrections and Settlement and Squat, Fathometers 808J No. 131SG and No. 132SG

FATHOM SCALES

SURVEYS HY-10148, HY-10448, and HY-10548

808J Fath. No.	Dates	Scale	Corrn. Fms	To Fms
132SG	26 May - 20 June 1949	All scales	+0.2	
132SG	21 June - 26 Sept. 1949	A	+0.1	31
		A	0.0	55
		B	0.0	90
131SG	21 June - 26 Sept. 1949	A	0.0	55
		B	-0.2	90

FEET SCALES

SURVEYS HY-10148, 10548, 10648 and 10948

808J Fath. No.	Dates	Scale	Corrn Ft.
132SG	26 May - 20 June 1949	A	0.0
		B	-1.0
		C	-1.5
		D	0.0
132SG	21 June - 26 Sept. 1949	A	+0.5
		B	+0.5
		C	+2.0
		D	+1.5
131SG	21 June - 26 Sept. 1949	A	0.0
		B	+0.5
		C	+0.5
		D	+1.5

Comp: PJB
Checked: RCR

INSTRUMENTAL CORRECTIONS

1950

Abstract of Instrumental Corrections including the correction for Settlement and Squat.

Surveys: Chart 1007; H-6548; H-7723 (10148); H-7749 (10548); H-7792 (10648); H-7793 (10948); H-7818 (10248); H-7819 (10748); H-7820 (10848); H-7821 (20149); H-7871 (10150); H-7872 (20150); H-7873 (20250).

FOOT SCALES

Fath. No.	Date	Scales:	A	B	C	D
131 SC	2 - 27 May	Speed:	120 RPM and over			
		Corrn:	- 0.5	- 0.5	+ 2.0	+ 4.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 1.0	+ 1.5	+ 3.5
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 1.5	+ 1.0	+ 3.0
	5 June - 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	+ 0.5	+ 2.5	+ 4.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 0.5	+ 1.5	+ 3.5

FATHOM SCALES

131 SC	2 - 27 May		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	- 0.1	- 0.7	+ 1.9	+ 4.0
		Speed:	107 RPM and under			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.9
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.8

Comp: JEW
CK: MST
WRK

FATHOM SCALES

Fath. No.	Date	Scales:	A	B	C	D
131 SG	2 - 27 May		CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	- 1.0	+ 2.0	+ 3.5
	5 June		CORRECTORS TO 0.1 FATHOM			
	15 December	Speed:	108 RPM and over			
		Corrn:	- 0.1	+ 0.4	+ 2.4	+ 4.3
		Speed:	107 RPM and under			
		Corrn:	- 0.2	+ 0.3	+ 2.3	+ 4.2
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All Speeds			
		Corrn:	- 0.2	+ 0.2	+ 2.2	+ 4.2
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0

FOOT SCALES

132 SG	2 May -	Speed:	120 RPM and over			
C231	19 May	Corrn:	- 0.5	- 1.5	0.0	+ 1.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 2.0	- 0.5	+ 1.0
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 2.5	- 1.0	+ 0.5
C232	19 May -	Speed:	120 RPM and over			
C952	19 May	Corrn:	+ 1.0	+ 8.0		
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	+ 0.5	+ 7.5		
		Speed:	105 RPM and under			
		Corrn:	0.0	+ 7.0		

Comp: JEW
Ck: NET
WRK

FOOT SCALES

Fath. No.	Date	Scales:	A	B	C	D
132 SG	1210 19 May- 20 September	Speed:	120 RPM and over			
		Corrn:	+ 0.5	- 0.5	+ 0.5	+ 2.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	0.0	- 1.0	0.0	+ 2.0
		Speed:	105 RPM and under			
		Corrn:	- 0.5	- 1.5	- 0.5	+ 1.5
	23 September 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	- 0.5	0.0	+ 2.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	- 1.0	- 0.5	+ 1.5
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 1.5	- 1.0	+ 1.0

FATHOM SCALE

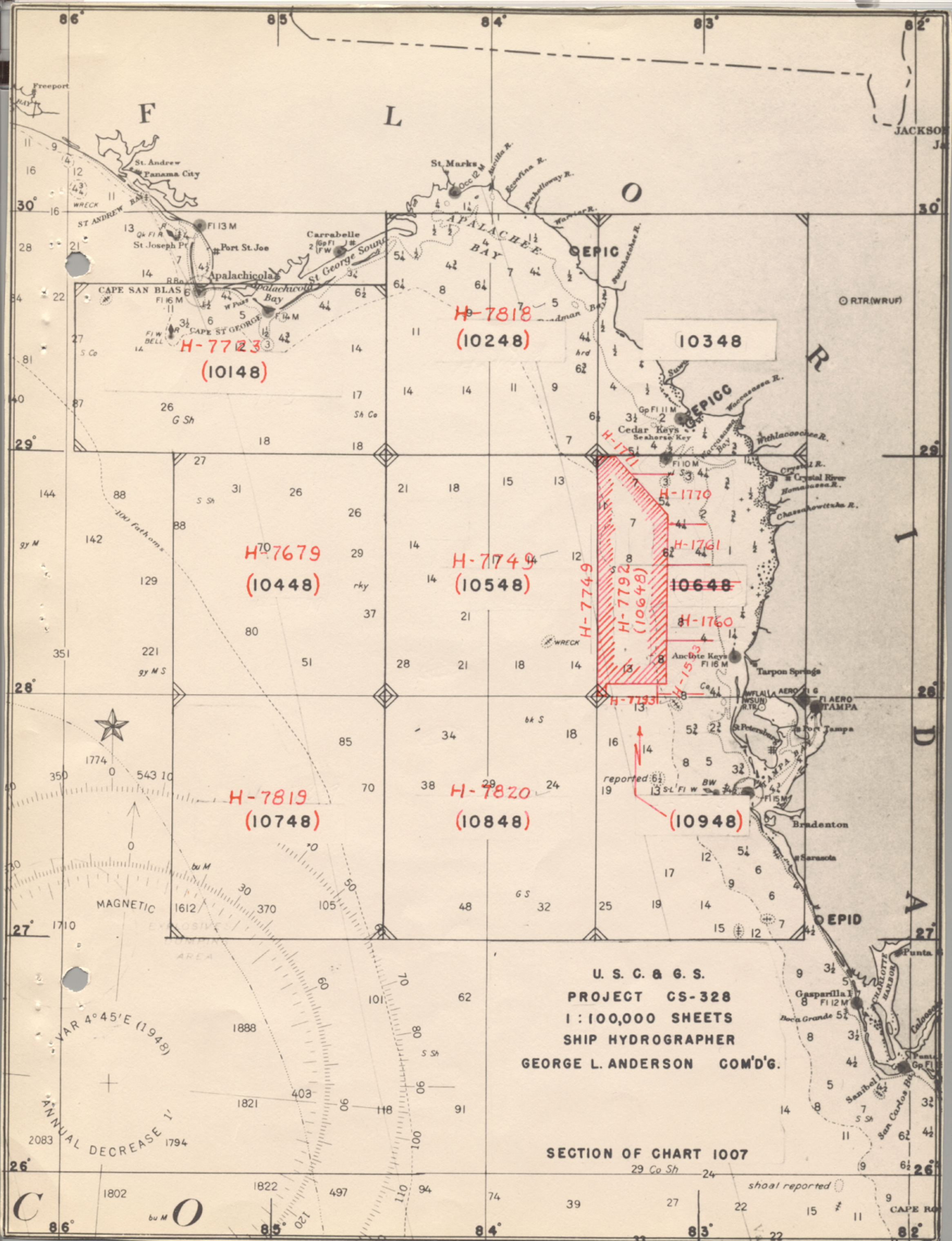
2 May - 0231 19 May		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 1.0	0.0	+ 1.8
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 1.1	- 0.1	+ 1.7
1210 19 May - 20 September		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 0.7	+ 0.2	+ 1.7
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 0.8	+ 0.1	+ 1.6
		CORRECTORS TO 0.2 FATHOM			
	Speed:	All Speeds			
	Corrn:	- 0.2	- 0.8	0.0	+ 1.6
		CORRECTORS TO 0.5 FATHOM			
	Speed:	All speeds			
	Corrn:	0.0	- 1.0	0.0	+ 1.5

Comp: JEW
Ck: NET
MRK

FATHOM SCALE

Fath. No.	Date	Scales:	A	B	C	D
132 SG	23 September 15 December		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	+ 0.1	- 0.3	+ 1.3	+ 3.1
		Speed:	107 RPM and under			
		Corrn:	0.0	- 0.4	+ 1.4	+ 3.2
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.4	+ 1.2	+ 3.0
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.5	+ 1.0	+ 3.0
205 (HMC-1) Visual & Chart	2 May - 15 December	Speed: Corrn:	CORRECTORS TO 0.5 FATHOM All Speeds All Scales: 0.0			

Comp: JEH
Ck: HRK



U. S. C. & G. S.
PROJECT CS-328
1 : 100,000 SHEETS
SHIP HYDROGRAPHER
GEORGE L. ANDERSON COM'D'G.
SECTION OF CHART 1007
H-7723
(10148)
H-7818
(10248)
10348
H-7679
(10448)
H-7749
(10548)
10648
H-7792
(10648)
H-7749
H-1771
H-1770
H-1761
H-1760
H-1553
H-7793
H-7819
(10748)
H-7820
(10848)
(10948)
F
L
O
R
I
D
A
C
O
Freeport
St. Andrew
Panama City
St Andrew Bay
St Joseph Pt
Port St. Joe
Carrabelle
Apalachicola
Apalachicola Bay
St George Sound
CAPE SAN BLAS
CAPE ST GEORGE
St. Marks
Aucilla R.
Econfina R.
Fenholloway R.
Apalachee Bay
Deadman Bay
Steinhatchee R.
Suwannee
Waccasassa R.
Cedar Keys
Seahorse Key
Withlacoochee R.
Crystal R.
Crystal River
Homosassa R.
Chassahowitzka R.
Anclote Keys
Tarpon Springs
TAMPA
Port Tampa
St Petersburg
Tampa Bay
Bradenton
Sarasota
Punta Gorda
Charlotte Harbor
Gasparilla I
Boca Grande
Sanibel I
San Carlos Bay
Caloosahatchee
CAPE ROMANO
JACKSONVILLE
EPIC
EPICC
EPID
R.T.R.(WRUF)
WRECK
100 fathoms
MAGNETIC
VAR 4°45'E (1948)
ANNUAL DECREASE 1'
EXPLOSIVES DUMPING AREA
reported
shoal reported
86°
85°
84°
83°
82°
30°
29°
28°
27°
26°

H 7792

Hy 10648

List of geographic names
penciled on smooth sheet.

Gulf of Mexico

STATISTICS FOR HYDROGRAPHIC SURVEY H-7792 (1948-49-50)

Ship HYDROGRAPHER Project CS-328

Volume Number	Day Letter	DATE 1948	Number of Positions	Statute Miles of Soundings
1	A	20 Oct.	15	30.3
1	B	22 Oct.	17	26.1
1	C	23 Oct.	4	5.5
1	D	24 Oct.	6	7.8
1 & 2	E	25 Oct.	26	41.6
2	F	28 Oct.	24	39.7
2	G	29 Oct.	37	38.0
2	H	10 Nov.	27	32.0
2	J	11 Nov.	10	12.2
		TOTALS FOR 1948	166	233.2

NUMBER OF SIMULTANEOUS COMPARISONS (for 1948) 5

1949

3	K	7 July	19	29.6
3	L	5 Aug.	43	60.8
3	M	11 Aug.	26	32.8
3	N	12 Aug.	3	4.0
3 & 4	P	18 Aug.	36	41.0
4	Q	19 Aug.	14	17.5
4	R	22 Aug.	10	14.1
4	S	23 Aug.	46	67.5
4 & 5	T	25 Aug.	80	119.1
5	U	2 Sept.	7	9.7
5 & 6	V	3 Sept.	101	145.7
6	W	4 Sept.	65	87.6
6	X	11 Sept.	26	38.6
7	Y	20 Sept.	33	51.6
7	Z	21 Sept.	21	32.5
		TOTALS FOR 1949	530	752.1

NUMBER OF SIMULTANEOUS COMPARISONS (for 1949) 5

STATISTICS (Cont.)

Volume Number	Day Letter	DATE 1950	Number of Positions	Statute Miles of Soundings
8	AA	4 May	18	35.9
8	BA	5 May	96	184.3
9	CA	11 May	22	42.5
9	DA	12 May	52	101.8
9	EA	18 May	31	59.8
9 & 10	FA	19 May	36	71.2
10	GA	27 May	36	73.0
10	HA	5 June	33	62.3
10	JA	6 June	5	9.5
10 & 11	KA	13 June	62	116.5
11	LA	14 June	59	111.3
11	MA	20 June	14	26.8
11 & 12	NA	21 June	24	47.4
12	PA	29 June	36	67.0
12	QA	6 July	6	10.1
12	RA	7 July	38	76.3
12 & 13	SA	8 July	43	61.2
13	TA	9 July	9	13.8
13	UA	10 July	22	42.8
13	VA	11 July	37	70.7
13 & 14	WA	15 July	40	76.1
14	XA	21 July	51	92.5
14 & 15	YA	22 July	118	225.0
15 & 16	ZA	23 July	139	255.6
16 & 17	AB	24 July	141	258.4
17 & 18	BB	25 July	79	155.1
18	CB	25 Aug.	13	24.7
18	DB	6 Dec.	38	73.0
		TOTALS FOR 1950	1,298	2,444.6

NUMBER OF SIMULTANEOUS COMPARISONS (for 1950) 8

NUMBER OF TEMPERATURE & SALINITY OBSERVATIONS 3

TOTALS FOR SURVEY 1,994 3,429.9

NUMBER OF SIMULTANEOUS COMPARISONS (all) 18

NUMBER OF TEMPERATURE & SALINITY OBSERVATIONS (all) 3

TOTAL AREA SURVEYED: 1,283 Square Statute Miles

7792

TIDE NOTE

Tide Station: Tampa Bay Florida Primary (St. Petersburg, Florida)

Latitude: 27° 46'

Longitude: 82° 38'

Plane of reference: Mean Low Water

Time Correction: Minus Two Hours

Height Correction: None

The value of the observed hourly heights and the highs and lows were furnished by the Washington Office. Time and height corrections were applied in the field as indicated in the Director's Letters of 13 January 1949, reference 36-tmo and 4 October 1949, reference 36-rcb.

GEOGRAPHIC NAMES

Survey No. H-7792

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Florida			}						Bay	1
Gulf of Mexico			for title							2
Tampa Bay Entrance										3
										4
										5
				Names approved 1-29-54 L. Heck						6
										7
										8
										9
										10
										11
										12
										13
										14
										15
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										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7792....

Records accompanying survey:

Boat sheets .1...; sounding vols.. 18....; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls .32 Env.

special reports, etc. 1 Smooth Sheet; 1 Descriptive Report; 8 E.P.I. Recorders Note Books; 1 Cahier E.P.I. Plotting Abstracts;

....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		1994
Number of positions checked		247
Number of positions revised		18
Number of soundings revised (refers to depth only)		161
Number of soundings erroneously spaced		78
Number of signals erroneously plotted or transferred		—
Topographic details	Time	—
Junctions	Time	80
Verification of soundings from graphic record	Time	40

Verification by C. B. Samuel ..... Total time 8 332.. Date 7/2/54 6/10/54

Reviewed by [signature] .... Time ..27.. Date 7/13/54

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7792 FIELD NO. HY-10648

Florida, Gulf of Mexico, Northwest of Tampa Bay Entrance

Project No. CS-328

Surveyed Oct. - Dec., 1950 Scale 1:100,000

Soundings: Control:

NMC-1 Fathometer
808 Fathometer E.P.I.

Chief of Party - G. L. Anderson
Surveyed by - R. C. Rowse, F. G. Johnson, J. P. Lushene, G. C. Mast
J. E. Waugh, W. N. Martin, F. J. Bryant, E. E. Jones,
N. E. Taylor and W. R. Kachel
Protracted by - C. L. Lehman
Soundings plotted by - C. L. Lehman
Verified and inked by - C. B. Samuel
Reviewed by - I. M. Zeskind 7-12-54
Inspected by - R. H. Carstens

1. Shoreline and Control

No shoreline falls within the limits of this offshore survey.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in adequate agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

The survey covers a portion of the continental shelf northwest of the entrance to Tampa Bay. The bottom in general is undulating and varies in depth from 40 ft. to 90 ft. Numerous sand ridges one to four feet in height are found throughout the area.

4. Junctions with Contemporary Surveys

An adequate junction was made with H-7749 (1948-50) on the west. Junctions with H-7820 (1948-50) on the southwest, H-7793 (1948-50) on the south and H-7818 (1950) on the northwest will be considered in the reviews of those surveys. The present survey extends to the limits of the Project on the east, where present survey depths are in adequate agreement with charted depths.

5. Comparison with Prior Surveys

H-1354 (1875-76), 1:600,000
H-1593b (1884), 1:40,000
H-1760 (1886), 1:40,000
H-1761 (1886), 1:40,000
H-1770 (1887), 1:40,000
H-1771 (1887), 1:40,000

A comparison between these early reconnaissance surveys and the present survey reveals numerous discrepancies in depths. Differences varying from 2-6 ft. in depths of 40-60 ft. and as much as 14 ft. in depths of 60-100 ft. are noted. These differences are attributed largely to the dead reckoning control and the incorrect spacing of soundings on the early reconnaissance surveys and to the shifting of sand shoals in the eastern portion of the surveyed area. The line containing the 28 ft. sounding charted in lat. 28°42.4', long. 83°08.8' from H-1770 (1887) is apparently out of position as much as 3 miles and depths on this line differ with present depths by 8 to 14 ft.

With the addition of a number of bottom characteristics from the prior surveys, the present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 1114 (Latest print date 10-6-52)
1258 (Latest print date 11-30-53)
1259 (Latest print date 12-14-53)

A. Hydrography

The charted hydrography originates principally with the previously discussed prior surveys supplemented by several soundings from the present survey.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

There are no aids to navigation within the area of the present survey.

7. Condition of Survey

a. The sounding records and Descriptive Report are complete and comprehensive.

b. The field plotting was accurately done.

c. A number of 5-ft. errors in scanning the fathograms were detected during verification.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is a very ~~good~~ Poor basic survey and ~~no~~ additional field work is recommended.

Examined and approved

H. R. Edmonston
Chief, Nautical Chart Branch

H. Arnold Karo
Chief, Division of Charts

G. R. Fish
Chief, Hydrography Branch

Earl O. Heaton
Chief, Division of Coastal Surveys

RGA C

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys:~~ 4 February 1954

Division of Charts: R. H. Carstens

Plane of reference approved in
18 volumes of sounding records for

HYDROGRAPHIC SHEET 7792

Locality West Coast of Florida

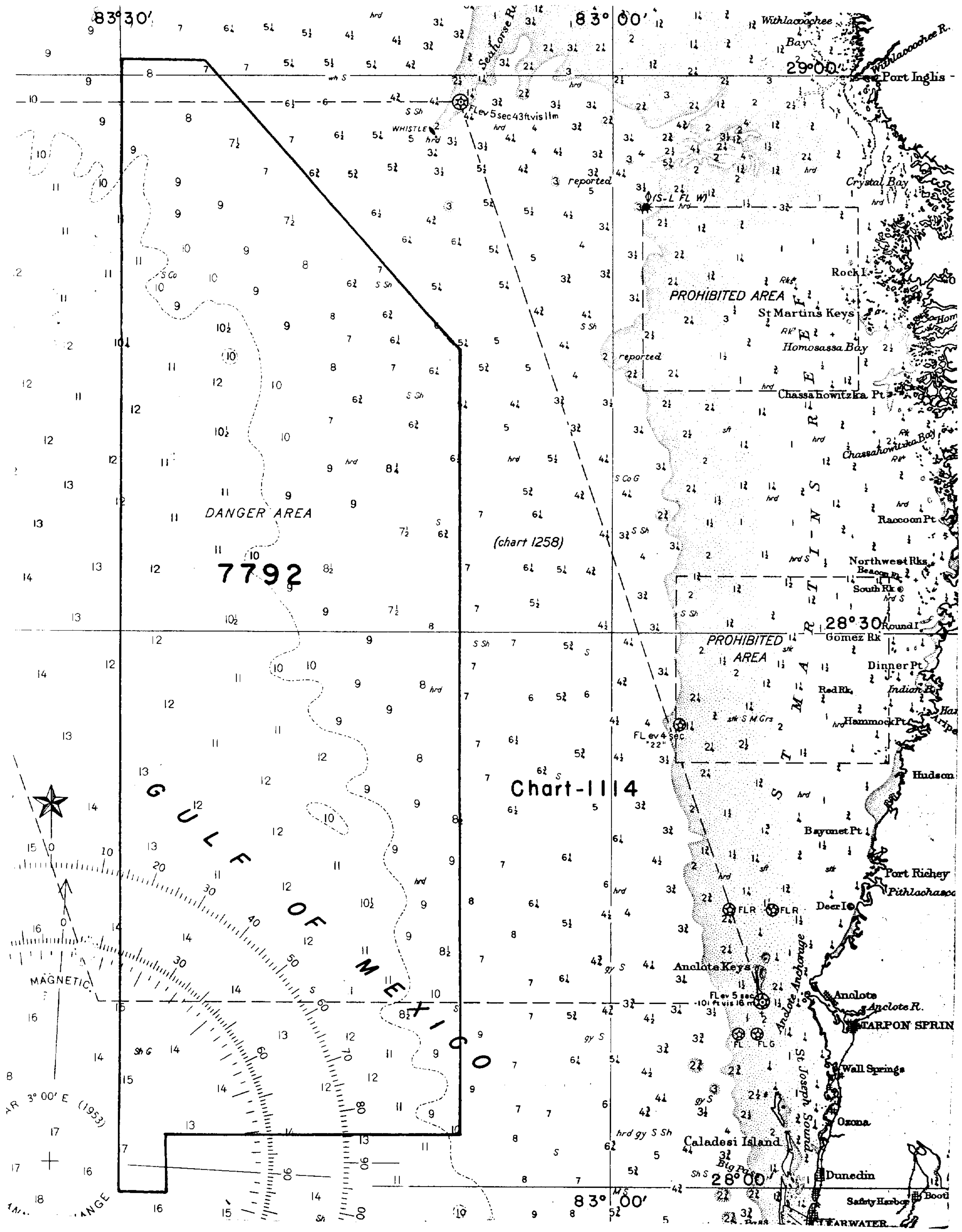
Chief of Party: G. L. Anderson in 1948 - 1950
Plane of reference is mean low water, reading
3.3 ft. on tide staff at St. Petersburg, Fla.
5.5 ft. below B. M. 4 (1925)

Height of mean high water above plane of reference is 1.4 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 877033



83°30'
83°00'
29°00'
28°30'
28°00'
Seahorse Reef
Fl ev 5 sec 43ft vis 11m
WHISTLE
Withlacoochee Bay
Withlacoochee R.
Port Inglis
Crystal Bay
reported
DANGER AREA
7792
(chart 1258)
Chart-1114
GULF OF MEXICO
PROHIBITED AREA
PROHIBITED AREA
ST MARTINS REEF
Rock I.
St Martins Keys
Homosassa Bay
Chassahowitzka Pt
Chassahowitzka Bay
Raccoon Pt
Northwest Rks
South Rk
Round I
Gomez Rk
Dinner Pt
Indian Bay
Red Rk
Hammock Pt
Fl ev 4 sec "22"
Hudson
Bayonet Pt
Port Richey
Pithlachascotee
Deer I
Anclote Keys
Anclote Anchorage
Anclote
Anclote R.
TARPON SPRIN
Wall Springs
St Joseph Sound
Ozona
Caladesi Island
Dunedin
Safety Harbor
CLEARWATER
MAGNETIC
VAR 3°00' E (1953)

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7792

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3-4-55	1114	J. H Eaton	Comp App'd. ~~Before~~ After Verification and Review
8-16-57	1258	W. Rogers	Completely ~~Before~~ After Verification and Review .
6/28/55	1003	T. E. MacEwen	~~Before~~ After Verification and Review Thru Ch't 1114
1-21-59	1007	R. K. DeLander	~~Before~~ After Verification and Review thru Ch't 1003
3-26-59	1114	F. M. Albert	1114 Compared with chart 1258 by direction of chief ~~Before~~ After Verification and Review
21 Apr 60	1259	Nichols	~~Before~~ After Verification and Review Fu C.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.